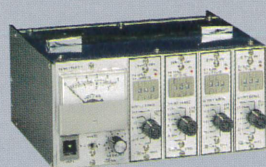
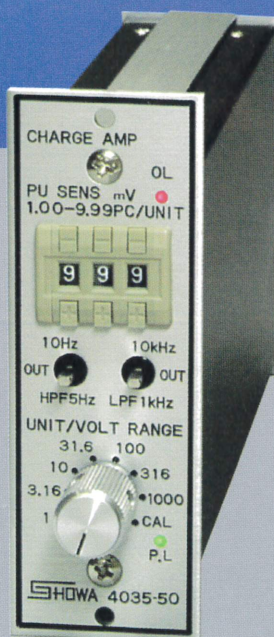


Charge amplifier

MODEL-4035-50

- Dynamic range is at least 100dB.
- Ideal for high-precision measurement.
- Supports charge output type and built-in amplifier type sensors.



Usable as single channel with an AC adapter, or with multiple channels with a power supply unit.

Configuration

Single channel configuration example
Charge amplifier: MODEL-4035-50 x1 unit
AC adapter: MODEL-4035-91 x1 unit

Four-channel configuration example
Charge amplifier: MODEL-4035-50 x4 units
Power supply unit: MODEL-4035-10M x1 unit
4 channel housing case: MODEL-4035-21 x1 unit

General-purpose charge amplifier



仕様

Standard configuration	MODEL-4035-50
Input terminals	Insulated BNC connector
Compatible detectors	Charge output type and built-in amplifier type detectors
Rated current drive power supply	+24V, 3mA rated current (when using a built-in amplifier type detector).
Frequency properties	0.5Hz ~ 100kHz...+1, -3dB 1Hz ~ 50kHz...±1dB 5Hz ~ 20kHz...±0.5dB
Full scale sensitivity	1V/1pC(mV) ~ 10,000pC(mV)
Sensor sensitivity	Measurement range 0.100~0.999pC(mV) 10, 30, 100, 3,000, 1,000, 3,000, 10,000 UNIT/V 1.00~9.99pC(mV) 1, 3, 10, 30, 100, 300, 1,000 UNIT/V* 10.0~99.9pC(mV) 0.1, 0.3, 1, 3, 10, 30, 100 UNIT/V 100~999pC(mV) 0.01, 0.03, 0.1, 0.3, 1, 3, 10 UNIT/V
Output	AC output (BNC connector) Maximum output voltage ± 10V (± 1V/FS) Note: Maximum is ±3.16V with 300 range, and ±1V with 1,000 range DC output (DSUB connector) Maximum output voltage + 10V (+ 1V/FS) Note: Maximum is +3.16V with 300 range, and +1V with 1,000 range
Noise level (typ.)	Full band: ① The input value converted from [0.008pCrms+0.005pCrms per 1,000pF of input capacitance], or ② 5mV (RMS), whichever is larger. Narrow band: 0.5Hz, 100pC/V → 10μV/√Hz 20 - 1,000Hz, 100pC/V → 1μV Full band (mV): ① The input value converted from 10μV rms, or ② 5mV rms, whichever is larger.
Accuracy	Within 1.5% of full range when not exceeding 1,000Hz and input capacitance 1,000pF
Filter	LPF: 1,000Hz, 10,000Hz(-12dB/OCT) HPF: 3Hz, 10Hz(-12dB/OCT)
Temperature and humidity ranges	Not exceeding -20°C - +60°C, 90%RH
Power supply	DC±9V - ±15V, or AC100 - 240V from an AC adapter The power supply unit can be used when built into a multichannel housing case. Power supply unit: MODEL-4035-10M (AC100V, can drive up to 10 channels)
Dimensions and weight	34.5(W)×99(H)×152(D)mm, approx. 350g

Optional types

High-sensitivity type	MODEL-4035-51
Full scale sensitivity	1V/0.1pC(mV) ~ 1,000pC(mV)
Sensor sensitivity	Measurement range 0.100~0.999pC(mV) 1, 3, 10, 30, 100, 300, 1,000 UNIT/V* 1.00 ~ 9.99pC(mV) 0.1, 0.3, 1, 3, 10, 30, 100 UNIT/V 10.0 ~ 99.9pC(mV) 0.01, 0.03, 0.1, 0.3, 1, 3, 10 UNIT/V
High-input type	MODEL-4035-52
Full scale sensitivity	1V/10pC(mV) ~ 100,000pC(mV)
Sensor sensitivity	Measurement range 10.0 ~ 99.9pC(mV) 1, 3, 10, 30, 100, 300, 1,000 UNIT/V* 1.00~9.99pC(mV) 10, 30, 100, 300, 1,000, 3,000, 10,000 UNIT/V 0.100~0.999pC(mV) 100, 300, 1,000, 3,000, 10,000, 30,000, 100,000 UNIT/V
Other options	MODEL-4035-91 AC adapter MODEL-4035-10M power supply unit MODEL-4001-20 3CH housing case MODEL-4035-21 4CH housing case MODEL-4035-23 10CH housing case MODEL-4035-30 blank panel The AC adapter is only for single channel drive. Use a power supply unit and a housing case for multiple channels.

The panel face shows the display range. Other ranges are used with conversion.